

# Technical Data Sheet

## InVivoMAb anti-mouse/rat IL-1 $\beta$



**Attention:** Use of this product constitutes an agreement to Bio X Cell's Terms and Conditions which are included with this product in print and can also be found at <https://bioxcell.com/terms-and-conditions>.

### Lot Specific Information

Lot Number: Lot Specific\*  
Volume: Lot Specific\*  
Concentration: Lot Specific\* (generally 4 to 11 mg/ml) \*  
Total Protein: Lot Specific\*

\*This information will be noted on the certificate of analysis that ships with this product.

### Product Information

Catalog Number: BE0246  
Clone: B122  
Isotype: Armenian hamster IgG  
Recommended Isotype Control(s): InVivoMAb polyclonal Armenian hamster IgG  
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer  
Immunogen: Recombinant mouse IL-1 $\beta$   
Reported Applications: *in vivo* IL-1 $\beta$  neutralization  
*in vitro* IL-1 $\beta$  neutralization  
ELISA  
Formulation: PBS, pH 7.0  
Contains no stabilizers or preservatives  
Endotoxin:  $\leq 1$  EU/mg ( $\leq 0.001$  EU/ $\mu$ g)  
Determined by LAL gel clotting assay  
Purity:  $\geq 95\%$   
Determined by SDS-PAGE  
Sterility: 0.2  $\mu$ m filtered  
Production: Purified from cell culture supernatant in an animal-free facility  
Purification: Protein G  
RRID: [AB\\_2687727](https://ab2687727)  
Molecular Weight: 150 kDa

### Description

The B122 monoclonal antibody reacts with precursor and mature secreted forms of mouse and rat IL-1 $\beta$  a 17 kDa pro-inflammatory cytokine produced primarily by monocytes. IL-1 $\beta$  is an important mediator of the inflammatory response, and is involved in a variety of cellular activities, including cell proliferation, differentiation, apoptosis, and T and B lymphocyte activation. IL-1 is made up of IL-1 $\alpha$  and IL-1 $\beta$  which are the products of distinct genes, but which are recognized by two distinct IL-1 receptors. The IL-1 receptor type I, an 80 kDa transmembrane protein with demonstrated IL-1 signaling function and the IL-1 receptor type II, a 68 kDa membrane protein with a relatively short cytoplasmic tail. The type II receptor acts as a decoy target for IL-1, inhibiting IL-1 activities by preventing the binding of IL-1 to the type I receptor. The B122 antibody has been reported to neutralize the bioactivity of natural or recombinant IL-1 $\beta$ .

### Storage

Store at the stock concentration at 4°C . **Do not freeze.**

It is not uncommon for a floccule or precipitate to appear during storage. The floccule is typically buffer salts precipitating out of solution or a small bit of protein aggregation. For information on how to remove floccules or precipitates see our FAQ's at <https://bioxcell.com/faqs>.

### Protocol Information

Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

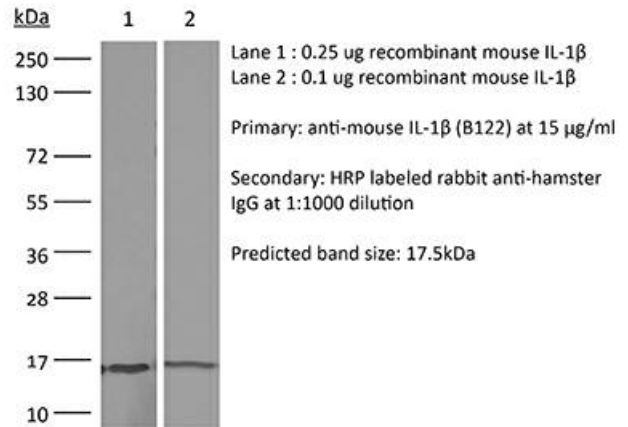
## Application References

For a complete list of references, visit [https://bioxcell.com/be0246?bxcs=9k1b3a#tab\\_references](https://bioxcell.com/be0246?bxcs=9k1b3a#tab_references) or scan the QR code below.



## Binding Validation

Validation data shown below confirms that this clone binds to its target antigen. For lot specific binding validation data, e-mail [technicalservice@bioxcell.com](mailto:technicalservice@bioxcell.com).



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*Conditions: For research use only. Not for use in diagnostic or therapeutic procedures.*

*Not for resale.*

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